

Patent Abstracts of Japan

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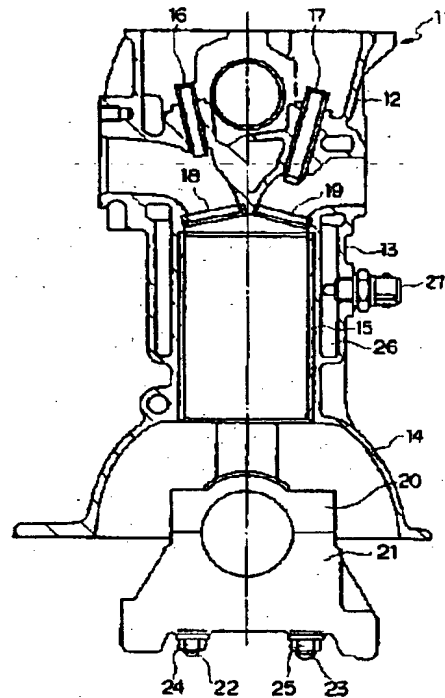
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TITLE : DEVICE FOR COOLING ENGINE



ABSTRACT : **PURPOSE:** To greatly reduce engine weight without worrying about any corrosion by forming a large weight engine component, being brought into contact with engine coolant, of magnesium alloy.

CONSTITUTION: An engine component being brought into contact with coolant is formed of magnesium alloy in an engine where coolant is forcedly circulated with a water pump. For example, a cylinder-head-integrated cylinder block 11 composed of a cylinder head part 12, a cylinder block 13, and a crank case 14 integrated with each other is casted with magnesium alloy. Magnesium corrosion inhibitor is added to the water in which an impurity metallic element is hardly mixed as the coolant. A sensor 27 sensing the output in response to an ion concentration in the coolant at a water jacket 26 is fitted to detect deterioration of the coolant.

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